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APPLICATION NO	D.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,024		03/16/2004	Alexei A. Gridnev	CL2556USNA	2649
23906	7590	07/14/2005		EXAM	INER
EIDUP	ONT DE	NEMOURS AND C	CHOI, LING SIU		
		ECORDS CENTER AZA 25/1128	ART UNIT	PAPER NUMBER	
4417 LAN	<b>ICASTER</b>	PIKE	1713		
WILMINGTON, DE 19805			DATE MAILED: 07/14/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/802,024	GRIDNEV ET AL.	
Office Action Summary			
• • • • • • • • • • • • • • • • • • •	Examiner	Art Unit	
The MAILING DATE of this communication a	Ling-Siu Choi	1713	
Period for Reply	appears on the cover sheet v	nui die correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a I  - If NO period for reply is specified above, the maximum statutory peri  - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of tho dwill apply and will expire SIX (6) MC tute, cause the application to become A	reply be timely filed inty (30) days will be considered timely.  NTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).	•
Status			
1) Responsive to communication(s) filed on 13	3 June 200 <u>5</u> .		
2a)⊠ This action is <b>FINAL</b> . 2b)□ T	his action is non-final.		
3) Since this application is in condition for allow	wance except for formal ma	tters, prosecution as to the merits is	
<ul> <li>closed in accordance with the practice under</li> </ul>	er <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.	•
Disposition of Claims			
· _			
4) Claim(s) <u>1,2,4-17 and 24-33</u> is/are pending	· •		
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1,2,4-17 and 24-33</u> is/are rejected.			
7) Claim(s) is/are objected to.	4/		
8) Claim(s) are subject to restriction and	a/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	iner.		
10) The drawing(s) filed on is/are: a) a		by the Examiner.	
Applicant may not request that any objection to t	• • •	•	
Replacement drawing sheet(s) including the corr	• • • • • • • • • • • • • • • • • • • •		
11) The oath or declaration is objected to by the	·	***	
Priority under 35 U.S.C. § 119			
•			
12) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:		§ 119(a)-(d) or (f).	
a) All b) Some * c) None of:  1. Certified copies of the priority docume	ents have been received.		
<ul> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority docume</li> <li>2. Certified copies of the priority docume</li> </ul>	ents have been received. ents have been received in	Application No	
a) All b) Some * c) None of:  1. Certified copies of the priority docume	ents have been received. ents have been received in	Application No	
<ul> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority docume</li> <li>2. Certified copies of the priority docume</li> <li>3. Copies of the certified copies of the papplication from the International Bure</li> </ul>	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
<ul> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority docume</li> <li>2. Certified copies of the priority docume</li> <li>3. Copies of the certified copies of the p</li> </ul>	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
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a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bure * See the attached detailed Office action for a l  Attachment(s)  1) Notice of References Cited (PTO-892)	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)). ist of the certified copies no	Application No  n received in this National Stage  of received.  Summary (PTO-413)	
a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bure * See the attached detailed Office action for a l  Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)). ist of the certified copies no	Application No  n received in this National Stage  of received.  Summary (PTO-413)  o(s)/Mail Date	
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#### **DETAILED ACTION**

1. This Office Action is in response to the Amendment filed June 13, 2005. Claims 3 and 18-23 were canceled and claims 1-2, 4-17, and 24-33 are now pending. In view of the Amendment, claim rejections under second paragraph of 35 U.S.C. 112 and claim rejections under 35 U.S.C. 102(b) as being anticipated by Muir et al. (US 5,684,101) are moved. Claim rejection under 35 U.S.C. 102(b) as being anticipated by Hawthorne (WO 87/03605) are maintained.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-2, 4-17, and 24-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Hawthorne (WO 87/03605).

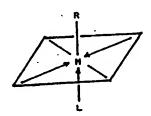
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A process t	o polymerize one or more vinylically-unsaturated monomers, comprising
contacting	the vinylically-unsaturated monomers,
	a chain transfer catalyst, and
	a hydrogen atom donor molecule
in the absen	ce of conventional free radical initiators
at a tempera	ature from about room temperature to about 240°C

(summary of claim 1)

Hawthorne discloses an oligomer obtained by the free radical polymerization of unsaturated monomers in the presence of a chain transfer agent comprising a transition metal complex of a metal cation and at least one chelating agent, wherein the transition metal complex is represented by the general structure of



wherein R is hydrogen or an organic group; L is a ligand for controlling the stability and electron transfer properties of the transition metal complex having cobalt and a bis(dimethyl glyoxime) ligand (abstract; page 3, lines 5-17; page 4, lines 15-17 and 29-31; page 5, lines 7-8). Hawthorne further disclose L can be water or an alcohol (page 5, lines 23-31). Attention is drawn to Example 1, wherein methyl methacrylate (MMA) in benzene is heated in the presence of a cobalt complex obtained by the contact of cobaltous acetate tetrahydrate, dimethylglyoxime, and pyridine in hydrogen to obtain oligo-MMA. It is noted that no conventional initiator such as AIBN used in Example 2 is used in oligomerization of the unsaturated monomers. Thus, the present claims are anticipated by the disclosure of Hawthorne.

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### Response to the Amendment

4. Applicant's arguments filed on June 13, 2005 have been fully considered but they are not persuasive.

Applicants, "There is no disclosure or suggestion of the presence of hydrogen gas or any other hydrogen atom donor being present during the polymerization."

It is noted that the chain transfer agent contains L group which can be water or an alcohol which reads on hydrogen atom donor molecule. Thus, claim rejections under 35 U.S.C. 102(b) as being anticipated by Hawthorne (WO 87/03605) are maintained.

#### Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-

1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner=s

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supervisor, David Wu, can be reach on 571-272-1114.

LING-SUI CHOI PRIMARY EXAMINER

July 5, 2005